

11  
System

The SAS  
11:27 Tuesday, October 23, 2007

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NOTE: Running on ALPHASERVER Model 2100 5/300 Serial Number 80000000.

Welcome to the NHEERL-RTP SAS Information Delivery System.

```
1          *PERCHLORATE M0703 DENTATE GYRUS IN VIVO HIGH INTENSITY TRAIN
DATA 1500UA;
2          *10 SWEEPS TAKEN AT 15 MIN INTERVALS AFTER 3TRAIN PAIRS AT
1500UA;
3          *THIS FILE CONTAINS SWEEPS TRAIN DATA FOR TC2 1500UA FOR
ADULT PERCHLORATE OPPM;
4          *ALL RESCORED BY MG JUNE 16, 2005;
5          *final post histo analysis dataset;
6
7          LIBNAME GILBERT '[GILBERT]';
NOTE: Libname GILBERT refers to the same physical library as SASUSER.
NOTE: Libref GILBERT was successfully assigned as follows:
      Engine:          V612
      Physical Name:  DSA9:[SAS$USERS.GILBERT]
8          DATA SWP1500;
9          INFILE '[GILBERT.M0703_PERCHLORATE_INVIVO]TC2SWP.DAT';
10         INPUT DOSE2 $ 1 ID 2-5 SESS REC DOSE PROBE TRIAL SLOPE BLSLP
PSP BLPSP SPIKE BLPS AREA BLAREA DIR CYCLE;
11         DROP REC;
12         IF ID=237 THEN DOSE=0;
13         IF ID=255 THEN DOSE=0;
14         IF ID=270 THEN DOSE=0;
15         IF ID=278 THEN DOSE=0;
16         IF ID=314 THEN DOSE=0;
17         IF ID=330 THEN DOSE=0;
18         IF ID=341 THEN DOSE=0;
19         IF ID=357 THEN DOSE=0;
20         IF ID=376 THEN DOSE=0;
21         IF ID=497 THEN DOSE=0;
22         IF ID=537 THEN DOSE=0;
23         IF ID=556 THEN DOSE=0;
24         IF ID=570 THEN DOSE=0;
25         IF ID=589 THEN DOSE=0;
26         IF ID=635 THEN DOSE=0;
27         IF ID=638 THEN DOSE=0;
28         IF ID=658 THEN DOSE=0;
29         IF ID=681 THEN DOSE=0;
30         IF ID=704 THEN DOSE=0;
31         IF ID=729 THEN DOSE=0;
32
33         IF ID=208 THEN DOSE=1;
```

```
34      IF ID=229 THEN DOSE=1;
35      IF ID=245 THEN DOSE=1;
36      IF ID=258 THEN DOSE=1;
37      IF ID=262 THEN DOSE=1;
38      IF ID=273 THEN DOSE=1;
39      IF ID=276 THEN DOSE=1;
40      IF ID=282 THEN DOSE=1;
41      IF ID=283 THEN DOSE=1;
42      IF ID=286 THEN DOSE=1;
```

43

```
44      *Subject 377 corrupt train file not included;
```

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```
45      IF ID=213 THEN DOSE=30;
46      IF ID=263 THEN DOSE=30;
47      IF ID=264 THEN DOSE=30;
48      IF ID=290 THEN DOSE=30;
49      IF ID=345 THEN DOSE=30;
50      IF ID=361 THEN DOSE=30;
51      IF ID=377 THEN DOSE=30;
52      IF ID=380 THEN DOSE=30;
53      IF ID=392 THEN DOSE=30;
54      IF ID=413 THEN DOSE=30;
55      IF ID=425 THEN DOSE=30;
56      IF ID=521 THEN DOSE=30;
57      IF ID=574 THEN DOSE=30;
58      IF ID=594 THEN DOSE=30;
59      IF ID=610 THEN DOSE=30;
60      IF ID=642 THEN DOSE=30;
```

61

```
62      *sub 369 corrupt train file not included;
```

```
63      IF ID=218 THEN DOSE=300;
64      IF ID=232 THEN DOSE=300;
65      IF ID=250 THEN DOSE=300;
66      IF ID=298 THEN DOSE=300;
67      IF ID=302 THEN DOSE=300;
68      IF ID=307 THEN DOSE=300;
69      IF ID=319 THEN DOSE=300;
70      IF ID=350 THEN DOSE=300;
71      IF ID=369 THEN DOSE=300;
72      IF ID=384 THEN DOSE=300;
73      IF ID=388 THEN DOSE=300;
74      IF ID=403 THEN DOSE=300;
75      IF ID=480 THEN DOSE=300;
76      IF ID=507 THEN DOSE=300;
77      IF ID=548 THEN DOSE=300;
78      IF ID=561 THEN DOSE=300;
79      IF ID=582 THEN DOSE=300;
80      IF ID=601 THEN DOSE=300;
81      IF ID=613 THEN DOSE=300;
82      IF ID=646 THEN DOSE=300;
```

83

```
84      IF ID=310 THEN DOSE=1000;
```

```

85         IF ID=323 THEN DOSE=1000;
86         IF ID=326 THEN DOSE=1000;
87         IF ID=354 THEN DOSE=1000;
88         IF ID=371 THEN DOSE=1000;
89         IF ID=511 THEN DOSE=1000;
90         IF ID=552 THEN DOSE=1000;
91         IF ID=565 THEN DOSE=1000;
92         IF ID=619 THEN DOSE=1000;
93         IF ID=629 THEN DOSE=1000;
94         IF ID=652 THEN DOSE=1000;
95         IF ID=677 THEN DOSE=1000;
96         IF ID=700 THEN DOSE=1000;
97         IF ID=724 THEN DOSE=1000;
98
99         *proc print;
100        *title 'PERCHLORATE 1500UA TRAIN BL VS POSTTRAIN RESPONSES';
101
102        *MEAN FOR PRETRAIN BASELINE;
13
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```

NOTE: The infile '[GILBERT.M0703\_PERCHLORATE\_INVIVO]TC2SWP.DAT' is:  
File=DSA9:[SAS\$USERS.GILBERT.M0703\_PERCHLORATE\_INVIVO]TC2SWP.DAT

NOTE: 3253 records were read from the infile  
'[GILBERT.M0703\_PERCHLORATE\_INVIVO]TC2SWP.DAT'.  
The minimum record length was 118.  
The maximum record length was 120.

NOTE: The data set WORK.SWP1500 has 3253 observations and 16 variables.

```

103        DATA PRETRN;
104        SET SWP1500;
105        MIN=0;
106        IF CYCLE>0 THEN DELETE;
107        IF TRIAL<11 THEN DELETE;
108        KEEP DOSE ID CYCLE AREA PSP SLOPE SPIKE TRIAL MIN PROBE BLSLP
BLPSP BLPS BLAREA;

```

NOTE: The data set WORK.PRETRN has 770 observations and 14 variables.

```

109        PROC SORT; BY ID;

```

NOTE: The data set WORK.PRETRN has 770 observations and 14 variables.

```

110        PROC MEANS MAXDEC=2 N MEAN STDERR MIN MAX NOPRINT;
111        BY ID;
112        VAR DOSE PROBE AREA PSP AREA SLOPE SPIKE MIN BLSLP BLPSP
BLPS BLAREA;
113        OUTPUT OUT=PRETRN MEAN=DOSE PROBE AREA PSP SLOPE SPIKE
MIN BLSLP BLPSP BLPS BLAREA;

```

NOTE: The data set WORK.PRETRN has 75 observations and 14 variables.

```
114 PROC PRINT;
115 TITLE 'MEAN BASELINE RESPONSES AVERAGED 11-10';
116
117 *MEAN IMMEDIATELY POSTTRAIN;
```

NOTE: The PROCEDURE PRINT printed pages 1-2.

```
118 DATA LTP1;
119 SET SWP1500;
120 MIN=1;
121 IF TRIAL>10 THEN DELETE;
122 IF CYCLE=0 THEN DELETE;
123 KEEP DOSE ID CYCLE AREA PSP AREA SLOPE SPIKE TRIAL MIN PROBE
BLSLP BLPSP BLPS BLAREA;
```

NOTE: The data set WORK.LTP1 has 770 observations and 14 variables.

```
124 PROC SORT; BY ID;
```

NOTE: The data set WORK.LTP1 has 770 observations and 14 variables.

```
125 PROC MEANS MAXDEC=2 N MEAN STDERR MIN MAX NOPRINT;
126 BY ID;
127 VAR DOSE PROBE AREA PSP SLOPE SPIKE MIN BLSLP BLPSP BLPS
BLAREA;
128 OUTPUT OUT=LTP1 MEAN=DOSE PROBE AREA PSP SLOPE SPIKE MIN
BLSLP BLPSP BLPS BLAREA;
129 *PROC PRINT;
130 *TITLE 'LTP1 IMMEDIATE POST HIGH INTENSITY TRAIN';
131
```

NOTE: The data set WORK.LTP1 has 75 observations and 14 variables.

```
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```

```
132 DATA LTP15;
133 SET SWP1500;
134 MIN=15;
135 IF TRIAL<11 THEN DELETE;
136 IF TRIAL>20 THEN DELETE;
137 IF CYCLE=0 THEN DELETE;
138 KEEP DOSE DOSE2 ID CYCLE AREA PSP SLOPE SPIKE TRIAL MIN PROBE
BLSLP BLPSP BLPS BLAREA;
```

NOTE: The data set WORK.LTP15 has 770 observations and 15 variables.

```
139 PROC SORT; BY ID;
```

NOTE: The data set WORK.LTP15 has 770 observations and 15 variables.

```
140 PROC MEANS MAXDEC=2 N MEAN STDERR MIN MAX NOPRINT;
141 BY ID;
```

```

142          VAR DOSE PROBE AREA PSP  SLOPE SPIKE MIN BLSLP BLPSP BLPS
BLAREA;
143          OUTPUT OUT=LTP15 MEAN=DOSE PROBE AREA PSP SLOPE SPIKE MIN
BLSLP BLPSP BLPS BLAREA;
144          *PROC PRINT;
145          *TITLE 'LTP 15 MIN POSTTRAIN';
146
147          *COMBINE MINUTE BINS INTO SINGLE DATASET;
148

```

NOTE: The data set WORK.LTP15 has 75 observations and 14 variables.

```

149          DATA CLO4;
150          SET PRETRN LTP1 LTP15;
151          *IF SPIKE=0 THEN SPKCENT=.001;
152          *IF BLPS=0 THEN BLPS=.001;
153
154          *DELETE DUDS - ANIMALS FOR WHICH NO DATA WERE COLLECTED, STIM
PARAMETERS WRONG, ANIMAL DIES, FAULTY EQUIP;
155          IF ID=327 THEN DELETE;
156          IF ID=374 THEN DELETE;
157          IF ID=257 THEN DELETE;
158          IF ID=393 THEN DELETE;
159          IF ID=333 THEN DELETE;
160          IF ID=527 THEN DELETE;
161          IF ID=605 THEN DELETE;
162          IF ID=501 THEN DELETE;
163          IF ID=201 THEN DELETE;
164
165          *DELETE ADDITIONAL ANIMALS BASED ON HISTO RESULTS ASSESSED
JAN/07 BY MG;
166          *341 376 497 638 FROM 0PPM, 282 283 1PPPM, 367 480 561 646
300PPM, AND 323 511 619 1000PPM;
167          IF ID=341 THEN DELETE;
168          IF ID=376 THEN DELETE;
169          IF ID=497 THEN DELETE;
170          IF ID=638 THEN DELETE;
171          IF ID=282 THEN DELETE;
172          IF ID=283 THEN DELETE;
173          IF ID=319 THEN DELETE;
174          IF ID=367 THEN DELETE;
175          IF ID=480 THEN DELETE;
176          IF ID=561 THEN DELETE;
177          IF ID=646 THEN DELETE;
178          IF ID=323 THEN DELETE;
179          IF ID=511 THEN DELETE;

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```

180          IF ID=619 THEN DELETE;
181
182
183          *DELETE THOSE WITH NO IO4;
184          IF ID=286 THEN DELETE;

```

```
185         IF ID=264 THEN DELETE;
186
187         SPKCENT=((SPIKE)/BLPS)*100;
188         SLPCENT=((SLOPE)/BLSLP)*100;
189         PSPCENT=((PSP)/BLPSP)*100;
190         ARCENT=((AREA)/BLAREA)*100;
191
192         KEEP ID DOSE AREA PSP SLOPE SPIKE MIN PROBE SPKCENT SLPCENT
PSPCENT ARCENT;
```

NOTE: The data set WORK.CLO4 has 186 observations and 12 variables.

```
193         PROC SORT;
194         BY DOSE ID MIN;
```

NOTE: The data set WORK.CLO4 has 186 observations and 12 variables.

```
195         PROC PRINT;
196         TITLE 'PERCHLORATE AVERAGES PRE 1 AND 15 MIN POST 1500UA
INTENSITY TRAIN';
197
```

NOTE: The PROCEDURE PRINT printed pages 3-6.

```
198         PROC SORT;
199         BY DOSE MIN;
```

NOTE: The data set WORK.CLO4 has 186 observations and 12 variables.

```
200         PROC MEANS MAXDEC=3 N MEAN STDERR MIN MAX NOPRINT;
201         BY DOSE MIN;
202         OUTPUT OUT=TRNM MEAN=MID MPROBE MAREA MPSP MSLOPE MSPIKE
MSPCENT MSLPCENT MPSPCENT MARCENT;
203         OUTPUT OUT=TRNSE STDERR=EID EPROBE EAREA EPSP ESLOPE ESPIKE
ESPCENT ESLPCENT EPSPCENT EARCENT;
```

NOTE: The data set WORK.TRNM has 15 observations and 14 variables.

NOTE: The data set WORK.TRNSE has 15 observations and 14 variables.

```
204         PROC PRINT DATA=TRNM;
205         TITLE 'PERCHLORATE AVERAGES PRE 1 AND 15 MIN POST 1500UA
INTENSITY TRAIN';
```

NOTE: The PROCEDURE PRINT printed page 7.

```
206         PROC PRINT DATA=TRNSE;
207         TITLE 'PERCHLORATE AVERAGES PRE 1 AND 15 MIN POST
1500UA INTENSITY TRAIN';
208
209
```

```
*****
*
```

210

\*\*\*\*\*

\*

211 \*\*\*\*\*GLM FOR PERCENT CHANGE IN SPIKE AMPLITUDE;

NOTE: The PROCEDURE PRINT printed page 8.

212 DATA SPIKE;

213 SET CLO4;

214 IF DOSE=1 THEN DELETE;

215

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216 KEEP ID DOSE SPKCENT MIN;

217 VAR2='V' || LEFT(MIN);

218 \*VARIABLE=TRIM(VAR2) || LEFT(MIN);

219

NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).

217:16

NOTE: The data set WORK.SPIKE has 165 observations and 4 variables.

220 PROC SORT; BY ID DOSE MIN;

NOTE: The data set WORK.SPIKE has 165 observations and 4 variables.

221 PROC TRANSPOSE OUT=TEMP;

222 BY ID;

223 VAR SPKCENT;

224 \*ID VARIABLE;

NOTE: The data set WORK.TEMP has 55 observations and 5 variables.

225 PROC PRINT;

226

227 \*REENTER DOSE CODES AFTER TRANSPOSE;

228 \*ASSIGN DOSE CODES;

NOTE: The PROCEDURE PRINT printed page 9.

229 DATA TEMP;

230 SET TEMP;

231

232 \*ENTER DOSE CODES;

233 IF ID=237 THEN DOSE=0;

234 IF ID=255 THEN DOSE=0;

235 IF ID=270 THEN DOSE=0;

236 IF ID=278 THEN DOSE=0;

237 IF ID=314 THEN DOSE=0;

238 IF ID=330 THEN DOSE=0;

239 IF ID=341 THEN DOSE=0;

240 IF ID=357 THEN DOSE=0;

```
241     IF ID=376 THEN DOSE=0;
242     IF ID=497 THEN DOSE=0;
243     IF ID=537 THEN DOSE=0;
244     IF ID=556 THEN DOSE=0;
245     IF ID=570 THEN DOSE=0;
246     IF ID=589 THEN DOSE=0;
247     IF ID=635 THEN DOSE=0;
248     IF ID=638 THEN DOSE=0;
249     IF ID=658 THEN DOSE=0;
250     IF ID=681 THEN DOSE=0;
251     IF ID=704 THEN DOSE=0;
252     IF ID=729 THEN DOSE=0;
253
254     IF ID=208 THEN DOSE=1;
255     IF ID=229 THEN DOSE=1;
256     IF ID=245 THEN DOSE=1;
257     IF ID=258 THEN DOSE=1;
258     IF ID=262 THEN DOSE=1;
259     IF ID=273 THEN DOSE=1;
```

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```
260     IF ID=276 THEN DOSE=1;
261     IF ID=282 THEN DOSE=1;
262     IF ID=283 THEN DOSE=1;
263     IF ID=286 THEN DOSE=1;
264
265     *Subject 377 corrupt train file not included;
266     IF ID=213 THEN DOSE=30;
267     IF ID=263 THEN DOSE=30;
268     IF ID=264 THEN DOSE=30;
269     IF ID=290 THEN DOSE=30;
270     IF ID=345 THEN DOSE=30;
271     IF ID=361 THEN DOSE=30;
272     IF ID=377 THEN DOSE=30;
273     IF ID=380 THEN DOSE=30;
274     IF ID=392 THEN DOSE=30;
275     IF ID=413 THEN DOSE=30;
276     IF ID=425 THEN DOSE=30;
277     IF ID=521 THEN DOSE=30;
278     IF ID=574 THEN DOSE=30;
279     IF ID=594 THEN DOSE=30;
280     IF ID=610 THEN DOSE=30;
281     IF ID=642 THEN DOSE=30;
282
283     *sub 369 corrupt train file not included;
284     IF ID=218 THEN DOSE=300;
285     IF ID=232 THEN DOSE=300;
286     IF ID=250 THEN DOSE=300;
287     IF ID=298 THEN DOSE=300;
288     IF ID=302 THEN DOSE=300;
289     IF ID=307 THEN DOSE=300;
290     IF ID=319 THEN DOSE=300;
291     IF ID=350 THEN DOSE=300;
```

```

292     IF ID=369 THEN DOSE=300;
293     IF ID=384 THEN DOSE=300;
294     IF ID=388 THEN DOSE=300;
295     IF ID=403 THEN DOSE=300;
296     IF ID=480 THEN DOSE=300;
297     IF ID=507 THEN DOSE=300;
298     IF ID=548 THEN DOSE=300;
299     IF ID=561 THEN DOSE=300;
300     IF ID=582 THEN DOSE=300;
301     IF ID=601 THEN DOSE=300;
302     IF ID=613 THEN DOSE=300;
303     IF ID=646 THEN DOSE=300;
304
305     IF ID=310 THEN DOSE=1000;
306     IF ID=323 THEN DOSE=1000;
307     IF ID=326 THEN DOSE=1000;
308     IF ID=354 THEN DOSE=1000;
309     IF ID=371 THEN DOSE=1000;
310     IF ID=511 THEN DOSE=1000;
311     IF ID=552 THEN DOSE=1000;
312     IF ID=565 THEN DOSE=1000;
313     IF ID=619 THEN DOSE=1000;
314     IF ID=629 THEN DOSE=1000;
315     IF ID=652 THEN DOSE=1000;
316     IF ID=677 THEN DOSE=1000;
317     IF ID=700 THEN DOSE=1000;

```

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```

318     IF ID=724 THEN DOSE=1000;
319

```

NOTE: The data set WORK.TEMP has 55 observations and 6 variables.

```

320     data temp;
321         set temp;
322         total=0;
323         total=(col2+col3)/2;

```

NOTE: The data set WORK.TEMP has 55 observations and 7 variables.

```

324     PROC GLM;
325         CLASSES DOSE;
326         MODEL total=DOSE;
327         TITLE 'SPKCENT PERCENT CHANGE FROM PRETRAIN POST
1500UA TRAIN SPIKE';
328     MEAN DOSE/DUNNETS;
+
+
+
+
+
+

```

329

\*\*\*\*\*  
\*

330

\*\*\*\*\*  
\*

331           \*\*\*\*GLM FOR PERCENT CHANGE IN SLOPE AMPLITUDE;

WARNING 1-322: Assuming the symbol DUNNETT was misspelled as DUNNETS.

NOTE: The PROCEDURE GLM printed pages 10-12.

332           DATA SLOPE;

333           SET CLO4;

334           IF DOSE=1 THEN DELETE;

335

336           KEEP ID DOSE SLP CENT MIN;

337           VAR2='V' || LEFT(MIN);

338           \*VARIABLE=TRIM(VAR2) || LEFT(MIN);

339

NOTE: Numeric values have been converted to character values at the places given by: (Line):(Column).

337:16

NOTE: The data set WORK.SLOPE has 165 observations and 4 variables.

340           PROC SORT; BY ID DOSE MIN;

NOTE: The data set WORK.SLOPE has 165 observations and 4 variables.

341           PROC TRANSPOSE OUT=TEMP;

342           BY ID;

343           VAR SLP CENT;

344           \*ID VARIABLE;

NOTE: The data set WORK.TEMP has 55 observations and 5 variables.

345           PROC PRINT;

346

347           \*REENTER DOSE CODES AFTER TRANSPOSE;

348           \*ASSIGN DOSE CODES;

NOTE: The PROCEDURE PRINT printed page 13.

349           DATA TEMP;

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350           SET TEMP;

351

352           \*ENTER DOSE CODES;

353           IF ID=237 THEN DOSE=0;

354           IF ID=255 THEN DOSE=0;

355           IF ID=270 THEN DOSE=0;

```

356     IF ID=278 THEN DOSE=0;
357     IF ID=314 THEN DOSE=0;
358     IF ID=330 THEN DOSE=0;
359     IF ID=341 THEN DOSE=0;
360     IF ID=357 THEN DOSE=0;
361     IF ID=376 THEN DOSE=0;
362     IF ID=497 THEN DOSE=0;
363     IF ID=537 THEN DOSE=0;
364     IF ID=556 THEN DOSE=0;
365     IF ID=570 THEN DOSE=0;
366     IF ID=589 THEN DOSE=0;
367     IF ID=635 THEN DOSE=0;
368     IF ID=638 THEN DOSE=0;
369     IF ID=658 THEN DOSE=0;
370     IF ID=681 THEN DOSE=0;
371     IF ID=704 THEN DOSE=0;
372     IF ID=729 THEN DOSE=0;
373
374     IF ID=208 THEN DOSE=1;
375     IF ID=229 THEN DOSE=1;
376     IF ID=245 THEN DOSE=1;
377     IF ID=258 THEN DOSE=1;
378     IF ID=262 THEN DOSE=1;
379     IF ID=273 THEN DOSE=1;
380     IF ID=276 THEN DOSE=1;
381     IF ID=282 THEN DOSE=1;
382     IF ID=283 THEN DOSE=1;
383     IF ID=286 THEN DOSE=1;
384
385     *Subject 377 corrupt train file not included;
386     IF ID=213 THEN DOSE=30;
387     IF ID=263 THEN DOSE=30;
388     IF ID=264 THEN DOSE=30;
389     IF ID=290 THEN DOSE=30;
390     IF ID=345 THEN DOSE=30;
391     IF ID=361 THEN DOSE=30;
392     IF ID=377 THEN DOSE=30;
393     IF ID=380 THEN DOSE=30;
394     IF ID=392 THEN DOSE=30;
395     IF ID=413 THEN DOSE=30;
396     IF ID=425 THEN DOSE=30;
397     IF ID=521 THEN DOSE=30;
398     IF ID=574 THEN DOSE=30;
399     IF ID=594 THEN DOSE=30;
400     IF ID=610 THEN DOSE=30;
401     IF ID=642 THEN DOSE=30;
402
403     *sub 369 corrupt train file not included;
404     IF ID=218 THEN DOSE=300;
405     IF ID=232 THEN DOSE=300;
406     IF ID=250 THEN DOSE=300;
407     IF ID=298 THEN DOSE=300;

```

```

408     IF ID=302 THEN DOSE=300;
409     IF ID=307 THEN DOSE=300;
410     IF ID=319 THEN DOSE=300;
411     IF ID=350 THEN DOSE=300;
412     IF ID=369 THEN DOSE=300;
413     IF ID=384 THEN DOSE=300;
414     IF ID=388 THEN DOSE=300;
415     IF ID=403 THEN DOSE=300;
416     IF ID=480 THEN DOSE=300;
417     IF ID=507 THEN DOSE=300;
418     IF ID=548 THEN DOSE=300;
419     IF ID=561 THEN DOSE=300;
420     IF ID=582 THEN DOSE=300;
421     IF ID=601 THEN DOSE=300;
422     IF ID=613 THEN DOSE=300;
423     IF ID=646 THEN DOSE=300;
424
425     IF ID=310 THEN DOSE=1000;
426     IF ID=323 THEN DOSE=1000;
427     IF ID=326 THEN DOSE=1000;
428     IF ID=354 THEN DOSE=1000;
429     IF ID=371 THEN DOSE=1000;
430     IF ID=511 THEN DOSE=1000;
431     IF ID=552 THEN DOSE=1000;
432     IF ID=565 THEN DOSE=1000;
433     IF ID=619 THEN DOSE=1000;
434     IF ID=629 THEN DOSE=1000;
435     IF ID=652 THEN DOSE=1000;
436     IF ID=677 THEN DOSE=1000;
437     IF ID=700 THEN DOSE=1000;
438     IF ID=724 THEN DOSE=1000;
439

```

NOTE: The data set WORK.TEMP has 55 observations and 6 variables.

```

440     data temp;
441     set temp;
442     total=0;
443     total=(col2+col3)/2;

```

NOTE: The data set WORK.TEMP has 55 observations and 7 variables.

```

444     PROC GLM;
445         CLASSES DOSE;
446         MODEL total=DOSE;
447         TITLE 'SLPCENT PERCENT CHANGE FROM PRETRAIN POST
1500UA TRAIN SLOPE';
448     MEAN DOSE/DUNNETS;
+
+
+
+

```

+ 1  
449 endsas;

WARNING 1-322: Assuming the symbol DUNNETT was misspelled as DUNNETS.

NOTE: The PROCEDURE GLM printed pages 14-16.

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414  
1 MEAN BASELINE RESPONSES  
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OBS	ID	_TYPE_	_FREQ_	DOSE	PROBE	AREA	PSP
SLOPE	SPIKE	MIN	BLSLP	BLPSP	BLPS	BLAREA	
1	201	0	10	1	1400	30.1349	5.3444
3.6217	1.4494	0	3.62	5.34	1.45	30.13	
2	208	0	10	1	800	53.0809	8.8734
3.2111	4.2088	0	3.21	8.87	4.21	53.08	
3	213	0	10	30	300	36.2103	6.3231
2.7293	2.5733	0	2.73	6.32	2.57	36.21	
4	218	0	10	300	500	21.8737	4.0194
3.3948	3.9799	0	3.39	4.02	3.98	21.87	
5	229	0	10	1	360	37.4180	7.8826
5.7687	7.5377	0	5.77	7.88	7.54	37.42	
6	232	0	10	300	480	17.1119	4.1030
2.2136	4.7815	0	2.21	4.10	4.78	17.11	
7	237	0	10	0	450	27.3331	5.0169
3.2980	5.5806	0	3.30	5.02	5.58	27.33	
8	245	0	10	1	650	27.3782	5.4997
3.1587	7.2993	0	3.16	5.50	7.30	27.38	
9	248	0	10	1	750	46.2237	7.4927
4.4269	5.2340	0	4.43	7.49	5.23	46.22	
10	250	0	10	300	540	78.5788	14.2041
7.5944	8.1706	0	7.59	14.20	8.17	78.58	
11	255	0	10	0	500	26.5198	5.5414
2.8514	6.1820	0	2.85	5.54	6.18	26.52	
12	258	0	10	1	320	22.1589	4.2186
1.3281	4.6613	0	1.33	4.22	4.66	22.16	
13	262	0	10	1	550	25.5870	4.6665
2.5344	6.4471	0	2.53	4.67	6.45	25.59	
14	263	0	10	30	750	30.5239	5.2755
3.8204	4.4356	0	3.82	5.28	4.44	30.52	
15	270	0	10	0	400	26.3564	5.9063
3.5111	7.7645	0	3.51	5.91	7.76	26.36	
16	278	0	10	0	650	44.2571	8.8431
7.4509	6.3373	0	7.45	8.84	6.34	44.26	
17	282	0	10	1	1100	27.3723	4.7810
2.4043	2.0819	0	2.40	4.78	2.08	27.37	
18	298	0	10	300	900	17.3477	3.2601
1.5234	0.9765	0	1.52	3.26	0.98	17.35	
19	302	0	10	300	550	76.1069	12.0714
8.2024	6.5182	0	8.20	12.07	6.52	76.11	
20	307	0	10	300	800	5.9601	1.3012
0.8087	0.7730	0	0.81	1.30	0.77	5.96	

21	310	0	10	1000	700	12.4320	3.1990
1.3383	3.1658	0	1.34	3.20	3.17	12.43	
22	319	0	10	300	700	8.2343	1.5218
0.5692	0.6043	0	0.57	1.52	0.60	8.23	
23	323	0	10	1000	900	9.9711	1.9859
0.6577	0.9240	0	0.66	1.99	0.92	9.97	
24	326	0	20	1000	700	21.5904	3.0637
1.6490	1.0249	0	1.65	3.06	1.02	21.59	
25	330	0	10	0	600	28.2386	5.6719
3.6563	3.7829	0	3.66	5.67	3.78	28.24	
26	341	0	10	0	900	13.5587	1.8549
0.7458	0.6932	0	0.75	1.85	0.69	13.56	
27	345	0	10	30	640	54.9295	9.0194
4.1357	5.9378	0	4.14	9.02	5.94	54.93	
28	350	0	10	300	600	31.1640	6.0152
2.1388	4.9899	0	2.14	6.02	4.99	31.16	
29	354	0	10	1000	900	34.7751	6.3614
2.5526	3.1052	0	2.55	6.36	3.11	34.78	
30	357	0	10	0	860	28.1067	6.0607
4.3358	4.5731	0	4.34	6.06	4.57	28.11	
31	361	0	10	30	760	8.9650	1.7053
0.5765	0.9018	0	0.58	1.71	0.90	8.96	
32	369	0	10	300	500	19.8694	3.9174
1.0873	1.8110	0	1.09	3.92	1.81	19.87	
33	371	0	10	1000	600	23.6313	4.3575
3.5039	3.8821	0	3.50	4.36	3.88	23.63	
34	376	0	10	0	700	15.5505	2.4897
0.8971	2.8059	0	0.90	2.49	2.81	15.55	
35	380	0	10	30	300	87.6040	14.2779
8.3817	8.2972	0	8.38	14.28	8.30	87.60	
36	384	0	10	300	560	13.2878	2.2768
0.8574	2.6900	0	0.86	2.28	2.69	13.29	
37	388	0	10	300	900	12.0763	2.4729
1.4360	1.4378	0	1.44	2.47	1.44	12.08	
38	392	0	10	30	450	12.0330	1.9765
0.8177	1.6686	0	0.82	1.98	1.67	12.03	
39	403	0	10	300	300	14.7285	2.5883
1.6988	2.9651	0	1.70	2.59	2.97	14.73	
40	413	0	10	30	1100	55.0007	7.6655
3.7605	3.4811	0	3.76	7.67	3.48	55.00	
41	425	0	10	30	700	20.7984	3.3503
2.0638	3.2605	0	2.06	3.35	3.26	20.80	
42	480	0	10	300	800	10.2591	1.3982
0.5517	0.5988	0	0.55	1.40	0.60	10.26	
43	497	0	10	0	600	60.5373	7.0624
3.1772	0.5943	0	3.18	7.06	0.59	60.54	
44	507	0	10	300	700	31.3451	5.6647
2.5050	2.8648	0	2.51	5.66	2.86	31.35	
45	511	0	10	1000	450	19.5943	3.7639
1.4360	1.5448	0	1.44	3.76	1.54	19.59	
46	521	0	10	30	580	18.1690	3.3455
1.8958	4.1528	0	1.90	3.35	4.15	18.17	
47	537	0	10	0	600	38.6715	6.7652
2.2327	2.9743	0	2.23	6.77	2.97	38.67	

48	548	0	10	300	240	33.1538	5.3337
2.6855	4.7415	0	2.69	5.33	4.74	33.15	
49	552	0	10	1000	820	22.1227	3.5734
2.8681	3.1643	0	2.87	3.57	3.16	22.12	
50	556	0	10	0	720	26.8123	3.8790
2.3373	3.0461	0	2.34	3.88	3.05	26.81	
51	561	0	10	300	500	12.1071	1.6783
1.0946	0.7889	0	1.09	1.68	0.79	12.11	
52	565	0	10	1000	700	38.6781	7.4161
3.5826	4.4998	0	3.58	7.42	4.50	38.68	
53	570	0	10	0	700	16.3670	3.8012
2.0027	5.9474	0	2.00	3.80	5.95	16.37	
54	574	0	10	30	450	12.9852	2.5604
1.2247	4.3066	0	1.22	2.56	4.31	12.99	
55	582	0	10	300	200	9.4733	1.6514
0.6933	0.6912	0	0.69	1.65	0.69	9.47	
56	585	0	20	1	700	13.4042	1.9493
0.7978	0.5289	0	0.80	1.95	0.53	13.40	

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 MEAN BASELINE RESPONSES  
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OBS	ID	_TYPE_	_FREQ_	DOSE	PROBE	AREA	PSP
SLOPE	SPIKE	MIN	BLSLP	BLPSP	BLPS	BLAREA	
57	589	0	10	0	400	36.9450	6.8242
3.2810	7.3922	0	3.28	6.82	7.39	36.94	
58	594	0	10	30	350	10.8969	1.8899
1.3163	2.9432	0	1.32	1.89	2.94	10.90	
59	601	0	10	300	450	15.6002	2.4003
1.0284	2.1414	0	1.03	2.40	2.14	15.60	
60	610	0	10	30	550	17.4705	3.4926
1.5221	4.0687	0	1.52	3.49	4.07	17.47	
61	613	0	10	300	700	37.9768	6.7677
1.8777	3.2041	0	1.88	6.77	3.20	37.98	
62	619	0	10	1000	450	8.3032	1.5775
1.0473	1.2499	0	1.05	1.58	1.25	8.30	
63	629	0	10	1000	1100	38.4376	7.1165
2.5763	1.7416	0	2.58	7.12	1.74	38.44	
64	635	0	10	0	700	25.6813	4.5364
3.1616	4.8297	0	3.16	4.54	4.83	25.68	
65	638	0	10	0	500	8.6791	1.9220
0.9005	1.0941	0	0.90	1.92	1.09	8.68	
66	642	0	10	30	560	18.4756	3.6086
1.7484	2.5719	0	1.75	3.61	2.57	18.48	
67	646	0	10	300	950	8.8563	1.4030
0.5197	0.2554	0	0.52	1.40	0.26	8.86	
68	652	0	10	1000	700	11.8596	1.8516
1.3539	0.9582	0	1.35	1.85	0.96	11.86	
69	658	0	10	0	300	29.0253	5.8091
3.6151	5.7380	0	3.62	5.81	5.74	29.03	
70	677	0	10	1000	700	9.9209	1.1861
0.3433	0.2222	0	0.34	1.19	0.22	9.92	
71	681	0	10	0	400	4.4309	1.1209
0.3072	0.4470	0	0.31	1.12	0.45	4.43	

72	700	0	10	1000	600	11.1799	1.7558
0.9957	1.9644	0	1.00	1.76	1.96	11.18	
73	704	0	10	0	300	60.4677	9.6659
4.8910	7.4572	0	4.89	9.67	7.46	60.47	
74	724	0	10	1000	500	6.7260	1.2034
0.7806	0.5325	0	0.78	1.20	0.53	6.73	
75	729	0	10	0	400	12.1632	2.1369
1.0965	1.7574	0	1.10	2.14	1.76	12.16	

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POST 1500UA INTENSITY TRAIN

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OBS	ID	DOSE	PROBE	AREA	PSP	SLOPE	
SPIKE	MIN	SPKCENT	SLPCENT	PSPCENT	ARCENT		
5.5806	1	237	0	450	27.3331	5.0169	3.2980
	0	100.011	99.939	99.938	100.011		
	2	237	0	450	32.7306	6.1643	4.2356
9.1803	1	164.522	128.352	122.795	119.761		
	3	237	0	450	32.1991	6.0167	3.9082
9.9744	15	178.753	118.430	119.855	117.816		
	4	255	0	500	26.5198	5.5414	2.8514
6.1820	0	100.032	100.049	100.025	99.999		
	5	255	0	500	30.2691	6.7451	3.4106
9.3696	1	151.612	119.670	121.753	114.137		
	6	255	0	500	28.8496	6.4094	3.0896
9.0372	15	146.233	108.407	115.693	108.784		
	7	270	0	400	26.3564	5.9063	3.5111
7.7645	0	100.058	100.031	99.937	99.986		
	8	270	0	400	32.5912	7.4715	4.5294
12.7227	1	163.952	129.043	126.421	123.639		
	9	270	0	400	33.0756	7.8222	4.3680
14.4152	15	185.763	124.444	132.355	125.476		
	10	278	0	650	44.2571	8.8431	7.4509
6.3373	0	99.957	100.012	100.035	99.993		
	11	278	0	650	49.8131	10.9428	8.6074
14.1873	1	223.774	115.536	123.787	112.547		
	12	278	0	650	51.1562	10.7030	8.4563
12.5897	15	198.576	113.507	121.075	115.581		
	13	330	0	600	28.2386	5.6719	3.6563
3.7829	0	100.077	99.899	100.034	99.995		
	14	330	0	600	30.5834	6.4520	4.1149
7.1871	1	190.135	112.429	113.792	108.298		
	15	330	0	600	30.0103	6.2858	3.9454
7.2431	15	191.616	107.798	110.861	106.269		
	16	357	0	860	28.1067	6.0607	4.3358
4.5731	0	100.068	99.903	100.012	99.988		
	17	357	0	860	33.8038	7.4840	5.5224
10.4494	1	228.652	127.244	123.498	120.255		
	18	357	0	860	32.0142	7.2773	5.6013
9.6480	15	211.116	129.062	120.087	113.889		
	19	537	0	600	38.6715	6.7652	2.2327
2.9743	0	100.145	100.121	99.929	100.004		

	20	537	0	600	39.2247	7.1290	2.6787
5.3657	1	180.663		120.121	105.303	101.434	
	21	537	0	600	38.3314	6.9432	2.7998
6.2497	15	210.428		125.552	102.558	99.124	
	22	556	0	720	26.8123	3.8790	2.3373
3.0461	0	99.872		99.885	99.974	100.009	
	23	556	0	720	34.4111	5.4280	3.0172
8.4845	1	278.180		128.940	139.897	128.352	
	24	556	0	720	35.2894	5.5149	3.0007
7.4514	15	244.308		128.235	142.137	131.628	
	25	570	0	700	16.3670	3.8012	2.0027
5.9474	0	99.956		100.135	100.032	99.982	
	26	570	0	700	20.9008	5.4592	2.9633
11.1215	1	186.916		148.165	143.663	127.677	
	27	570	0	700	20.2194	5.1516	2.8801
10.1859	15	171.192		144.005	135.568	123.515	
	28	589	0	400	36.9450	6.8242	3.2810
7.3922	0	100.030		100.030	100.062	100.014	
	29	589	0	400	41.9203	8.4545	4.0005
12.8790	1	174.276		121.966	123.966	113.482	
	30	589	0	400	40.5481	7.9860	4.1413
13.3353	15	180.451		126.259	117.097	109.767	
	31	635	0	700	25.6813	4.5364	3.1616
4.8297	0	99.994		100.051	99.921	100.005	
	32	635	0	700	31.0819	5.8758	3.7350
9.0103	1	186.549		118.196	129.423	121.035	
	33	635	0	700	24.9298	4.6303	3.0980
6.2214	15	128.807		98.038	101.989	97.079	
	34	658	0	300	29.0253	5.8091	3.6151
5.7380	0	99.965		99.865	99.985	99.984	
	35	658	0	300	32.8103	6.6703	4.3637
9.6317	1	167.800		120.544	114.807	113.022	
	36	658	0	300	27.8653	6.0115	3.5802
8.3005	15	144.608		98.901	103.468	95.988	
	37	681	0	400	4.4309	1.1209	0.3072
0.4470	0	99.333		99.097	100.080	100.020	
	38	681	0	400	4.4570	1.0673	0.3697
1.0643	1	236.511		119.258	95.295	100.609	
	39	681	0	400	4.1203	1.0001	0.3546
0.9181	15	204.022		114.387	89.295	93.009	
	40	704	0	300	60.4677	9.6659	4.8910
7.4572	0	99.962		100.020	99.958	99.996	
	41	704	0	300	58.7061	10.6035	5.9221
10.0317	1	134.473		121.106	109.654	97.083	
	42	704	0	300	56.1886	10.3589	5.5843
12.5668	15	168.456		114.198	107.124	92.920	
	43	729	0	400	12.1632	2.1369	1.0965
1.7574	0	99.852		99.682	99.855	100.026	
	44	729	0	400	13.6122	2.4991	1.3705
2.8737	1	163.278		124.591	116.780	111.942	
	45	729	0	400	13.1437	2.6083	1.3988
3.7776	15	214.636		127.164	121.883	108.090	
	46	208	1	800	53.0809	8.8734	3.2111
4.2088	0	99.971		100.034	100.038	100.002	

47	208	1	800	53.1293	9.5755	4.5167
8.9096	1	211.629	140.707	107.954	100.093	
48	208	1	800	53.3047	9.4596	4.2150
8.6409	15	205.247	131.308	106.647	100.423	
49	229	1	360	37.4180	7.8826	5.7687
7.5377	0	99.969	99.977	100.033	99.995	
50	229	1	360	42.1307	9.3985	6.4778
12.4244	1	164.780	112.267	119.270	112.589	
51	229	1	360	38.8949	8.9703	6.3123
10.6516	15	141.268	109.399	113.836	103.941	
52	245	1	650	27.3782	5.4997	3.1587
7.2993	0	99.990	99.959	99.995	99.993	
53	245	1	650	30.4614	7.3029	4.0553
13.9971	1	191.741	128.332	132.780	111.254	
54	245	1	650	30.6317	7.5107	4.0593
14.6449	15	200.615	128.459	136.558	111.876	
55	248	1	750	46.2237	7.4927	4.4269
5.2340	0	100.076	99.930	100.036	100.008	
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				PERCHLORATE AVERAGES PRE	1 AND 15 MIN	
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OBS SPIKE	ID MIN	DOSE SPKCENT	PROBE SLPCENT	AREA PSPCENT	PSP ARCENT	SLOPE
56	248	1	750	49.8158	9.2671	5.6856
12.2306	1	233.855	128.343	123.726	107.780	
57	248	1	750	47.1578	8.8270	5.5702
11.7014	15	223.736	125.738	117.850	102.029	
58	258	1	320	22.1589	4.2186	1.3281
4.6613	0	100.028	99.857	99.967	99.995	
59	258	1	320	22.3931	4.5054	1.6261
7.7017	1	165.273	122.263	106.763	101.052	
60	258	1	320	21.7681	4.4718	1.4395
8.4365	15	181.041	108.233	105.967	98.231	
61	262	1	550	25.5870	4.6665	2.5344
6.4471	0	99.955	100.174	99.925	99.988	
62	262	1	550	34.3787	6.6559	3.3149
13.4254	1	208.146	131.024	142.525	134.344	
63	262	1	550	31.8203	6.4536	3.2231
12.7901	15	198.296	127.395	138.193	124.347	
64	585	1	700	13.4042	1.9493	0.7978
0.5289	0	99.792	99.725	99.964	100.031	
65	585	1	700	13.4730	2.2726	1.0445
0.9375	1	176.887	130.562	116.544	100.545	
66	585	1	700	13.0901	2.1862	0.9749
1.0218	15	192.792	121.863	112.113	97.687	
67	213	30	300	36.2103	6.3231	2.7293
2.5733	0	100.128	99.974	100.049	100.001	
68	213	30	300	33.7587	6.3096	2.9343
4.3394	1	168.848	107.484	99.835	93.230	
69	213	30	300	32.2301	5.9300	3.3353
4.5560	15	177.276	122.172	93.829	89.009	

	70	263	30	750	30.5239	5.2755	3.8204
4.4356	0	99.901	100.010	99.915	100.013		
	71	263	30	750	34.4726	6.5282	4.3139
8.7171	1	196.331	112.929	123.640	112.951		
	72	263	30	750	33.6596	6.6223	4.1812
10.0179	15	225.628	109.455	125.422	110.287		
	73	345	30	640	54.9295	9.0194	4.1357
5.9378	0	99.963	99.896	99.993	99.999		
	74	345	30	640	58.4414	9.8392	5.3727
12.8849	1	216.918	129.775	109.082	106.392		
	75	345	30	640	53.1199	8.9238	5.1681
12.9373	15	217.800	124.833	98.933	96.705		
	76	361	30	760	8.9650	1.7053	0.5765
0.9018	0	100.200	99.397	99.725	100.056		
	77	361	30	760	9.2614	1.9451	0.7899
2.2013	1	244.589	136.190	113.749	103.364		
	78	361	30	760	8.6561	1.8401	0.7821
2.3851	15	265.011	134.845	107.608	96.608		
	79	380	30	300	87.6040	14.2779	8.3817
8.2972	0	99.966	100.020	99.985	100.005		
	80	380	30	300	82.9989	14.5915	9.7597
16.2811	1	196.158	116.464	102.181	94.748		
	81	380	30	300	79.3853	13.9412	9.2347
15.7404	15	189.643	110.199	97.627	90.622		
	82	392	30	450	12.0330	1.9765	0.8177
1.6686	0	99.916	99.720	99.823	100.025		
	83	392	30	450	12.4466	2.2529	1.0084
2.5197	1	150.880	122.976	113.783	103.463		
	84	392	30	450	11.7493	2.0482	0.9111
2.3702	15	141.928	111.110	103.444	97.667		
	85	413	30	1100	55.0007	7.6655	3.7605
3.4811	0	100.032	100.013	99.941	100.001		
	86	413	30	1100	60.7159	8.4807	4.7377
6.2094	1	178.431	126.003	110.570	110.393		
	87	413	30	1100	57.6386	8.1860	4.3285
5.0325	15	144.612	115.120	106.728	104.797		
	88	425	30	700	20.7984	3.3503	2.0638
3.2605	0	100.015	100.184	100.009	99.992		
	89	425	30	700	21.7240	4.0858	2.6101
5.3077	1	162.813	126.704	121.964	104.442		
	90	425	30	700	21.3690	4.0533	2.4543
6.0273	15	184.887	119.141	120.994	102.736		
	91	521	30	580	18.1690	3.3455	1.8958
4.1528	0	100.067	99.779	99.866	99.994		
	92	521	30	580	20.8313	4.2280	2.4812
7.6409	1	184.118	130.589	126.209	114.647		
	93	521	30	580	22.4234	4.5100	2.4747
8.4695	15	204.084	130.247	134.627	123.409		
	94	574	30	450	12.9852	2.5604	1.2247
4.3066	0	99.921	100.385	100.016	99.963		
	95	574	30	450	15.5610	3.3035	1.4529
6.1245	1	142.100	119.090	129.043	119.792		
	96	574	30	450	14.1629	3.0273	1.3568
5.7634	15	133.722	111.213	118.254	109.029		

2.9432	97	594	30	350	10.8969	1.8899	1.3163
	0	100.109		99.720	99.995	99.972	
5.1884	98	594	30	350	13.4491	2.5420	1.6660
	1	176.476		126.212	134.497	123.386	
5.2837	99	594	30	350	12.9736	2.4825	1.5802
	15	179.718		119.712	131.349	119.024	
4.0687	100	610	30	550	17.4705	3.4926	1.5221
	0	99.968		100.138	100.074	100.003	
6.9466	101	610	30	550	20.9307	4.3135	1.9897
	1	170.678		130.901	123.596	119.809	
7.2893	102	610	30	550	19.7550	4.3269	1.9892
	15	179.098		130.868	123.980	113.080	
2.5719	103	642	30	560	18.4756	3.6086	1.7484
	0	100.074		99.909	99.961	99.976	
4.5702	104	642	30	560	20.0961	3.9095	2.1398
	1	177.829		122.274	108.296	108.745	
4.3942	105	642	30	560	19.4305	3.7657	1.9494
	15	170.981		111.394	104.313	105.143	
3.9799	106	218	300	500	21.8737	4.0194	3.3948
	0	99.997		100.142	99.985	100.017	
6.3002	107	218	300	500	30.9930	4.7661	3.4061
	1	158.296		100.475	118.560	141.715	
6.4185	108	218	300	500	23.9898	4.5937	3.5317
	15	161.269		104.180	114.271	109.693	
4.7815	109	232	300	480	17.1119	4.1030	2.2136
	0	100.031		100.163	100.073	100.011	
8.3782	110	232	300	480	20.9934	5.5035	2.6875
	1	175.276		121.606	134.232	122.697	
1					PERCHLORATE AVERAGES PRE	1 AND 15 MIN	
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OBS SPIKE	ID MIN	DOSE SPKCENT	PROBE SLPCENT	AREA PSPCENT	PSP ARCENT	SLOPE	
7.5298	111	232	300	480	18.8841	5.0594	2.2581
	15	157.527		102.176	123.400	110.369	
8.1706	112	250	300	540	78.5788	14.2041	7.5944
	0	100.007		100.058	100.029	99.998	
20.0727	113	250	300	540	90.9627	15.4918	10.0819
	1	245.688		132.831	109.097	115.758	
19.7667	114	250	300	540	79.0453	14.2489	9.0238
	15	241.942		118.891	100.344	100.592	
0.9765	115	298	300	900	17.3477	3.2601	1.5234
	0	99.643		100.224	100.003	99.987	
2.7222	116	298	300	900	15.1348	3.4099	2.0721
	1	277.776		136.322	104.598	87.232	
3.2179	117	298	300	900	14.6395	3.2687	2.0217
	15	328.357		133.007	100.267	84.378	
6.5182	118	302	300	550	76.1069	12.0714	8.2024
	0	99.972		100.029	100.012	99.996	
12.9717	119	302	300	550	83.4083	13.0657	10.2799
	1	198.952		125.365	108.249	109.589	

	120	302	300	550	74.9158	12.2242	9.9474
13.2579	15	203.342	121.310	101.278	98.431		
	121	307	300	800	5.9601	1.3012	0.8087
0.7730	0	100.390	99.840	100.092	100.002		
	122	307	300	800	6.2228	1.4785	0.9986
1.5567	1	202.169	123.284	113.731	104.409		
	123	307	300	800	5.7489	1.3938	0.9459
1.4211	15	184.558	116.778	107.215	96.458		
	124	350	300	600	31.1640	6.0152	2.1388
4.9899	0	99.998	99.944	99.920	100.013		
	125	350	300	600	32.0659	7.0539	2.7826
8.9368	1	179.094	130.028	117.174	102.907		
	126	350	300	600	31.8753	6.5465	2.7129
8.1596	15	163.519	126.771	108.746	102.296		
	127	369	300	500	19.8694	3.9174	1.0873
1.8110	0	100.055	99.752	99.934	99.997		
	128	369	300	500	19.4305	4.5762	1.4695
3.1866	1	176.055	134.817	116.740	97.788		
	129	369	300	500	18.9448	4.4303	1.4712
2.8103	15	155.265	134.972	113.018	95.344		
	130	384	300	560	13.2878	2.2768	0.8574
2.6900	0	100.000	99.698	99.860	99.983		
	131	384	300	560	15.2993	2.7850	1.0961
5.1290	1	190.669	127.453	122.149	115.119		
	132	384	300	560	14.1705	2.7380	0.9924
5.0420	15	187.435	115.395	120.088	106.625		
	133	388	300	900	12.0763	2.4729	1.4360
1.4378	0	99.847	99.722	100.117	99.969		
	134	388	300	900	14.5477	3.1927	1.8449
3.7096	1	257.611	128.118	129.259	120.428		
	135	388	300	900	13.2906	2.7233	1.5841
3.2850	15	228.125	110.007	110.255	110.022		
	136	403	300	300	14.7285	2.5883	1.6988
2.9651	0	99.835	99.929	99.934	99.990		
	137	403	300	300	18.9608	3.0996	2.0234
3.7305	1	125.606	119.024	119.676	128.722		
	138	403	300	300	16.8762	2.8856	2.0225
3.5228	15	118.613	118.971	111.413	114.570		
	139	507	300	700	31.3451	5.6647	2.5050
2.8648	0	100.168	99.801	100.083	99.984		
	140	507	300	700	32.5778	6.1565	3.2826
6.6151	1	231.297	130.781	108.772	103.916		
	141	507	300	700	31.2199	6.0335	3.1176
6.7284	15	235.259	124.207	106.599	99.585		
	142	548	300	240	33.1538	5.3337	2.6855
4.7415	0	100.032	99.833	100.069	100.011		
	143	548	300	240	32.7782	5.4943	3.0753
7.3819	1	155.736	114.323	103.083	98.878		
	144	548	300	240	32.5819	5.3702	2.9817
8.4117	15	177.462	110.844	100.754	98.286		
	145	582	300	200	9.4733	1.6514	0.6933
0.6912	0	100.174	100.478	100.085	100.035		
	146	582	300	200	10.5755	1.8268	0.7652
0.9936	1	144.000	110.899	110.715	111.674		

147	582	300	200	9.5155	1.6879	0.6930
0.8845	15	128.188	100.435	102.297	100.480	
148	601	300	450	15.6002	2.4003	1.0284
2.1414	0	100.065	99.845	100.013	100.001	
149	601	300	450	16.9859	2.7076	1.3555
3.8245	1	178.715	131.602	112.817	108.884	
150	601	300	450	16.6764	2.6144	1.3076
3.8033	15	177.724	126.951	108.933	106.900	
151	613	300	700	37.9768	6.7677	1.8777
3.2041	0	100.128	99.878	99.966	99.992	
152	613	300	700	39.7294	7.6487	2.1827
4.9628	1	155.088	116.101	112.979	104.606	
153	613	300	700	37.0487	7.2100	2.1258
4.8028	15	150.088	113.074	106.499	97.548	
154	310	1000	700	12.4320	3.1990	1.3383
3.1658	0	99.868	99.873	99.969	100.016	
155	310	1000	700	13.8008	4.0479	1.5992
6.6317	1	209.202	119.343	126.497	111.028	
156	310	1000	700	13.1545	4.2719	1.5512
7.3103	15	230.609	115.761	133.497	105.829	
157	326	1000	700	21.5904	3.0637	1.6490
1.0249	0	100.480	99.939	100.121	100.002	
158	326	1000	700	22.0756	3.1571	1.8639
2.0838	1	204.294	112.964	103.173	102.249	
159	326	1000	700	21.6937	2.9976	1.8520
2.2009	15	215.775	112.242	97.961	100.480	
160	354	1000	900	34.7751	6.3614	2.5526
3.1052	0	99.846	100.102	100.022	99.986	
161	354	1000	900	35.5890	7.3535	3.3885
6.8263	1	219.495	132.882	115.621	102.326	
162	354	1000	900	34.4745	7.1873	3.2398
6.6320	15	213.248	127.051	113.008	99.122	
163	371	1000	600	23.6313	4.3575	3.5039
3.8821	0	100.054	100.111	99.943	100.006	
164	371	1000	600	27.3288	5.5731	4.3355
7.4110	1	191.005	123.871	127.823	115.653	
165	371	1000	600	25.6320	5.3223	4.1232
7.2656	15	187.258	117.806	122.071	108.472	

1 PERCHLORATE AVERAGES PRE 1 AND 15 MIN  
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SPIKE	OBS MIN	ID SPKCENT	DOSE	PROBE SLPCENT	AREA PSPCENT	PSP ARCENT	SLOPE
166	552	1000	820	22.1227	3.5734	2.8681	
3.1643	0	100.136	99.934	100.095	100.012		
167	552	1000	820	25.5774	4.4626	3.8739	
6.4098	1	202.842	134.979	125.003	115.630		
168	552	1000	820	22.3544	4.0045	3.3118	
5.4990	15	174.019	115.394	112.171	101.060		
169	565	1000	700	38.6781	7.4161	3.5826	
4.4998	0	99.996	100.073	99.947	99.995		

8.4903	170	565	1000	700	43.0660	8.2339	4.4472
	1	188.673	124.223	110.969	111.339		
7.2488	171	565	1000	700	37.4862	7.5267	4.2563
	15	161.084	118.891	101.438	96.914		
1.7416	172	629	1000	1100	38.4376	7.1165	2.5763
	0	100.092	99.857	99.951	99.994		
5.1919	173	629	1000	1100	36.4990	7.4773	3.2647
	1	298.385	126.539	105.018	94.951		
4.8872	174	629	1000	1100	36.7581	7.1870	3.0803
	15	280.874	119.391	100.941	95.625		
0.9582	175	652	1000	700	11.8596	1.8516	1.3539
	0	99.813	100.289	100.086	99.997		
2.4952	176	652	1000	700	13.7649	2.2442	1.7070
	1	259.917	126.444	121.308	116.062		
2.6441	177	652	1000	700	13.7801	2.1193	1.6437
	15	275.427	121.756	114.557	116.190		
0.2222	178	677	1000	700	9.9209	1.1861	0.3433
	0	101.000	100.971	99.672	100.009		
0.8584	179	677	1000	700	11.4722	1.4568	0.4380
	1	390.182	128.824	122.420	115.647		
0.8217	180	677	1000	700	11.3893	1.2705	0.4054
	15	373.500	119.235	106.765	114.811		
1.9644	181	700	1000	600	11.1799	1.7558	0.9957
	0	100.224	99.570	99.761	99.999		
3.5445	182	700	1000	600	12.7581	2.1097	1.2356
	1	180.842	123.560	119.869	114.115		
3.2650	183	700	1000	600	11.9235	1.8360	1.0381
	15	166.582	103.810	104.318	106.650		
0.5325	184	724	1000	500	6.7260	1.2034	0.7806
	0	100.472	100.077	100.283	99.941		
1.2243	185	724	1000	500	7.0801	1.2148	0.9280
	1	231.000	118.974	101.233	105.202		
1.2427	186	724	1000	500	5.7937	0.9748	0.8442
	15	234.472	108.231	81.233	86.088		

1 PERCHLORATE AVERAGES PRE 1 AND 15 MIN  
POST 1500UA INTENSITY TRAIN 7

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OBS	DOSE	MIN	_TYPE_	_FREQ_	MID	MPROBE	MAREA	MPSP
MSLOPE	MSPIKE	MSPCENT	MSLPCENT	MPSPCENT	MARCENT			
1	0	0	0	15	492.400	532.000	28.7584	5.43861
3.20191	4.92065	99.954	99.915	99.985	100.001			
2	0	1	0	15	492.400	532.000	32.4610	6.56309
3.92273	8.90392	188.753	123.677	120.722	114.218			
3	0	15	0	15	492.400	532.000	31.1961	6.31461
3.74711	8.79429	185.264	118.559	116.070	109.262			
4	1	0	0	7	290.714	590.000	32.1787	5.79754
3.03224	5.13101	99.969	99.951	99.994	100.002			
5	1	1	0	7	290.714	590.000	35.1117	6.99684
3.81727	9.94661	193.187	127.643	121.366	109.665			
6	1	15	0	7	290.714	590.000	33.8097	6.83989
3.68490	9.69817	191.856	121.771	118.738	105.505			

7	30	0	0	13	441.000	576.154	29.5432	4.96081
2.61484	3.73839	100.020	99.934	99.950	100.000			
8	30	1	0	13	441.000	576.154	31.1298	5.56381
3.17356	6.84086	182.013	123.661	116.650	108.874			
9	30	15	0	13	441.000	576.154	29.7349	5.35825
3.05735	6.94360	185.722	119.255	112.855	104.470			
10	300	0	0	16	397.000	557.500	27.2284	4.87798
2.48409	3.29603	100.021	99.958	100.011	99.999			
11	300	1	0	16	397.000	557.500	30.0416	5.51605
3.08774	6.27951	190.752	123.939	115.114	110.895			
12	300	15	0	16	397.000	557.500	27.4640	5.18928
2.92109	6.19139	187.417	117.373	108.461	101.974			
13	1000	0	0	11	532.727	729.091	21.0321	3.73495
1.95857	2.20555	100.180	100.072	99.986	99.996			
14	1000	1	0	11	532.727	729.091	22.6374	4.30281
2.46195	4.65156	234.167	124.782	116.267	109.473			
15	1000	15	0	11	532.727	729.091	21.3127	4.06345
2.30418	4.45612	228.441	116.324	107.996	102.840			

1 PERCHLORATE AVERAGES PRE 1 AND 15 MIN  
 POST 1500UA INTENSITY TRAIN 8

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OBS	DOSE	MIN	_TYPE_	_FREQ_	EID	EPROBE	EAREA	EPSP
ESLOPE	ESPIKE	ESPCENT	ESLPCENT	EPSPCENT	EARCENT			
1	0	0	0	15	47.1671	44.0584	3.42163	0.57569
0.42952	0.55691	0.0485	0.06557	0.01600	0.00347			
2	0	1	0	15	47.1671	44.0584	3.39068	0.65825
0.49728	0.92884	9.7584	2.16243	3.19263	2.45971			
3	0	15	0	15	47.1671	44.0584	3.39475	0.65102
0.48652	0.95049	7.9072	3.20468	3.63783	3.13979			
4	1	0	0	7	49.5368	71.1805	5.30271	0.91745
0.64782	0.90615	0.0334	0.05294	0.01665	0.00548			
5	1	1	0	7	49.5368	71.1805	5.43855	1.05002
0.75367	1.73989	9.8461	3.29848	4.89003	4.55831			
6	1	15	0	7	49.5368	71.1805	5.28350	1.01435
0.74766	1.66863	9.7478	3.51669	5.05693	3.61863			
7	30	0	0	13	37.8006	61.7225	6.47234	1.00139
0.57800	0.52309	0.0254	0.06869	0.02696	0.00658			
8	30	1	0	13	37.8006	61.7225	6.26975	1.00109
0.67410	1.09610	7.5266	2.21878	2.95432	2.57126			
9	30	15	0	13	37.8006	61.7225	5.90128	0.94516
0.63800	1.09703	10.1090	2.43708	3.76166	2.88898			
10	300	0	0	16	33.4464	52.2534	5.39089	0.90468
0.56130	0.53217	0.0412	0.05293	0.01848	0.00395			
11	300	1	0	16	33.4464	52.2534	6.05039	0.97085
0.72143	1.19458	10.7277	2.44075	2.10616	3.30145			
12	300	15	0	16	33.4464	52.2534	5.31759	0.89807
0.67342	1.19176	12.9189	2.59230	1.72723	1.86982			
13	1000	0	0	11	48.6855	49.0909	3.56083	0.69678
0.33517	0.43360	0.1068	0.10581	0.05079	0.00614			
14	1000	1	0	11	48.6855	49.0909	3.60465	0.76597
0.43247	0.81457	18.7389	1.90071	2.92830	2.16897			

15 1000 15 0 11 48.6855 49.0909 3.36294 0.74075  
 0.40632 0.75781 18.9383 1.93340 4.11070 2.64075  
 1 PERCHLORATE AVERAGES PRE 1 AND 15 MIN  
 POST 1500UA INTENSITY TRAIN 9

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COL2	COL3	OBS	ID	_NAME_	COL1
168.848	177.276	1	213	SPKCENT	100.128
158.296	161.269	2	218	SPKCENT	99.997
175.276	157.527	3	232	SPKCENT	100.031
164.522	178.753	4	237	SPKCENT	100.011
245.688	241.942	5	250	SPKCENT	100.007
151.612	146.233	6	255	SPKCENT	100.032
196.331	225.628	7	263	SPKCENT	99.901
163.952	185.763	8	270	SPKCENT	100.058
223.774	198.576	9	278	SPKCENT	99.957
277.776	328.357	10	298	SPKCENT	99.643
198.952	203.342	11	302	SPKCENT	99.972
202.169	184.558	12	307	SPKCENT	100.390
209.202	230.609	13	310	SPKCENT	99.868
204.294	215.775	14	326	SPKCENT	100.480
190.135	191.616	15	330	SPKCENT	100.077
216.918	217.800	16	345	SPKCENT	99.963
179.094	163.519	17	350	SPKCENT	99.998
219.495	213.248	18	354	SPKCENT	99.846
228.652	211.116	19	357	SPKCENT	100.068
244.589	265.011	20	361	SPKCENT	100.200
176.055	155.265	21	369	SPKCENT	100.055
191.005	187.258	22	371	SPKCENT	100.054

196.158	189.643	23	380	SPKCENT	99.966
190.669	187.435	24	384	SPKCENT	100.000
257.611	228.125	25	388	SPKCENT	99.847
150.880	141.928	26	392	SPKCENT	99.916
125.606	118.613	27	403	SPKCENT	99.835
178.431	144.612	28	413	SPKCENT	100.032
162.813	184.887	29	425	SPKCENT	100.015
231.297	235.259	30	507	SPKCENT	100.168
184.118	204.084	31	521	SPKCENT	100.067
180.663	210.428	32	537	SPKCENT	100.145
155.736	177.462	33	548	SPKCENT	100.032
202.842	174.019	34	552	SPKCENT	100.136
278.180	244.308	35	556	SPKCENT	99.872
188.673	161.084	36	565	SPKCENT	99.996
186.916	171.192	37	570	SPKCENT	99.956
142.100	133.722	38	574	SPKCENT	99.921
144.000	128.188	39	582	SPKCENT	100.174
174.276	180.451	40	589	SPKCENT	100.030
176.476	179.718	41	594	SPKCENT	100.109
178.715	177.724	42	601	SPKCENT	100.065
170.678	179.098	43	610	SPKCENT	99.968
155.088	150.088	44	613	SPKCENT	100.128
298.385	280.874	45	629	SPKCENT	100.092
186.549	128.807	46	635	SPKCENT	99.994
177.829	170.981	47	642	SPKCENT	100.074
259.917	275.427	48	652	SPKCENT	99.813
167.800	144.608	49	658	SPKCENT	99.965

390.182	373.500	50	677	SPKCENT	101.000
236.511	204.022	51	681	SPKCENT	99.333
180.842	166.582	52	700	SPKCENT	100.224
134.473	168.456	53	704	SPKCENT	99.962
231.000	234.472	54	724	SPKCENT	100.472
163.278	214.636	55	729	SPKCENT	99.852
1				SPKCENT PERCENT CHANGE FROM PRETRAIN	
POST 1500UA TRAIN SPIKE				10	

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Procedure	General Linear Models
Information	Class Level
Values	Class Levels
30 300 1000	DOSE 4 0

data set = 55

Number of observations in

1	SPKCENT PERCENT CHANGE FROM PRETRAIN
POST 1500UA TRAIN SPIKE	11

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Procedure	General Linear Models	
Dependent Variable: TOTAL		
Source	DF	Sum of Squares
Mean Square	F Value	Pr > F
Model	3	17597.29988723
5865.76662908	3.12	0.0337
Error	51	95741.33983957
1877.28117332		
Corrected Total	54	113338.63972680

Root MSE	R-Square	C.V.
	TOTAL Mean	
43.32760290	0.155263	22.13652
	195.72909689	

Source	DF	Type I SS
DOSE	3	17597.29988723
Mean Square	F Value	Pr > F
5865.76662908	3.12	0.0337

Source	DF	Type III SS
DOSE	3	17597.29988723
Mean Square	F Value	Pr > F
5865.76662908	3.12	0.0337

1 SPKCENT PERCENT CHANGE FROM PRETRAIN  
 POST 1500UA TRAIN SPIKE 12

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General Linear Models

Procedure

Dunnett's T tests for

variable: TOTAL

NOTE: This tests controls the type I  
 experimentwise error for comparisons of all treatments  
 against a control.

Alpha= 0.05 Confidence= 0.95

df= 51 MSE= 1877.281

Critical Value of

Dunnett's T= 2.427

Comparisons significant at the 0.05  
 level are indicated by '\*\*\*\*'.

Simultaneous	Upper	DOSE	Simultaneous
Difference	Confidence	Comparison	Lower
Between	Limit		Confidence
Means			Limit

44.30	86.04	***	1000 - 0	2.55
2.08	39.87		300 - 0	-35.72
3.14	36.71		30 - 0	-42.99
				-

1 SPKCENT PERCENT CHANGE FROM PRETRAIN  
 POST 1500UA TRAIN SPIKE 13

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COL2	COL3	OBS	ID	_NAME_	COL1
107.484	122.172	1	213	SLPCENT	99.974
100.475	104.180	2	218	SLPCENT	100.142
121.606	102.176	3	232	SLPCENT	100.163
128.352	118.430	4	237	SLPCENT	99.939
132.831	118.891	5	250	SLPCENT	100.058
119.670	108.407	6	255	SLPCENT	100.049
112.929	109.455	7	263	SLPCENT	100.010
129.043	124.444	8	270	SLPCENT	100.031
115.536	113.507	9	278	SLPCENT	100.012
136.322	133.007	10	298	SLPCENT	100.224
125.365	121.310	11	302	SLPCENT	100.029
123.284	116.778	12	307	SLPCENT	99.840
119.343	115.761	13	310	SLPCENT	99.873
112.964	112.242	14	326	SLPCENT	99.939
112.429	107.798	15	330	SLPCENT	99.899
129.775	124.833	16	345	SLPCENT	99.896
130.028	126.771	17	350	SLPCENT	99.944
132.882	127.051	18	354	SLPCENT	100.102
127.244	129.062	19	357	SLPCENT	99.903

136.190	134.845	20	361	SLPCENT	99.397
134.817	134.972	21	369	SLPCENT	99.752
123.871	117.806	22	371	SLPCENT	100.111
116.464	110.199	23	380	SLPCENT	100.020
127.453	115.395	24	384	SLPCENT	99.698
128.118	110.007	25	388	SLPCENT	99.722
122.976	111.110	26	392	SLPCENT	99.720
119.024	118.971	27	403	SLPCENT	99.929
126.003	115.120	28	413	SLPCENT	100.013
126.704	119.141	29	425	SLPCENT	100.184
130.781	124.207	30	507	SLPCENT	99.801
130.589	130.247	31	521	SLPCENT	99.779
120.121	125.552	32	537	SLPCENT	100.121
114.323	110.844	33	548	SLPCENT	99.833
134.979	115.394	34	552	SLPCENT	99.934
128.940	128.235	35	556	SLPCENT	99.885
124.223	118.891	36	565	SLPCENT	100.073
148.165	144.005	37	570	SLPCENT	100.135
119.090	111.213	38	574	SLPCENT	100.385
110.899	100.435	39	582	SLPCENT	100.478
121.966	126.259	40	589	SLPCENT	100.030
126.212	119.712	41	594	SLPCENT	99.720
131.602	126.951	42	601	SLPCENT	99.845
130.901	130.868	43	610	SLPCENT	100.138
116.101	113.074	44	613	SLPCENT	99.878
126.539	119.391	45	629	SLPCENT	99.857
118.196	98.038	46	635	SLPCENT	100.051

122.274	111.394	47	642	SLPCENT	99.909
126.444	121.756	48	652	SLPCENT	100.289
120.544	98.901	49	658	SLPCENT	99.865
128.824	119.235	50	677	SLPCENT	100.971
119.258	114.387	51	681	SLPCENT	99.097
123.560	103.810	52	700	SLPCENT	99.570
121.106	114.198	53	704	SLPCENT	100.020
118.974	108.231	54	724	SLPCENT	100.077
124.591	127.164	55	729	SLPCENT	99.682

1 SLPCENT PERCENT CHANGE FROM PRETRAIN  
 POST 1500UA TRAIN SLOPE 14

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Procedure General Linear Models  
 Information Class Level  
 Values Class Levels  
 30 300 1000 DOSE 4 0

data set = 55 Number of observations in

1 SLPCENT PERCENT CHANGE FROM PRETRAIN  
 POST 1500UA TRAIN SLOPE 15

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Procedure General Linear Models

Dependent Variable: TOTAL

Source	Mean Square	F Value	DF	Pr > F	Sum of Squares
Model	2.29631012	0.03	3	0.9924	6.88893035

Error	51	3715.66343627
72.85614581		
Corrected Total	54	3722.55236662
Root MSE	R-Square	C.V.
	TOTAL Mean	
8.53558116	0.001851	7.057051
	120.95111155	

Source	DF	Type I SS
Mean Square	F Value	Pr > F
DOSE	3	6.88893035
2.29631012	0.03	0.9924

  

Source	DF	Type III SS
Mean Square	F Value	Pr > F
DOSE	3	6.88893035
2.29631012	0.03	0.9924

1 SLPCENT PERCENT CHANGE FROM PRETRAIN  
 POST 1500UA TRAIN SLOPE 16

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General Linear Models

Procedure

Dunnett's T tests for

variable: TOTAL

NOTE: This tests controls the type I  
 experimentwise error for comparisons of all treatments  
 against a control.

Alpha= 0.05 Confidence= 0.95

df= 51 MSE= 72.85615

Critical Value of

Dunnett's T= 2.427

Comparisons significant at the 0.05  
 level are indicated by '\*\*\*'.

Simultaneous

Simultaneous

Lower

Difference Upper

Between	Confidence	DOSE	Confidence
Means	Limit	Comparison	Limit
0.3395	8.1903	30 - 0	-7.5113
0.4621	6.9840	300 - 0	-7.9082 -
0.5650	7.6593	1000 - 0	-8.7893 -